



EXTRAORDINARY
प्राधिकार से प्रकाशित
Published by Authority

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No. 204, Port Blair, Friday, September 6, 2013

अण्डमान तथा निकोबार प्रशासन
ANDAMAN AND NICOBAR ADMINISTRATION
सचिवालय/SECRETARIAT
NOTIFICATION

Port Blair, dated the 6th September, 2013

No. 202/2013/F.No.34-738/2012-Rev.(NMA)(PF).— WHEREAS, in pursuance of Rule 15 (1) of the Andaman & Nicobar Islands Minor Minerals Rules, 2012, a committee was constituted vide Notification No. 216/2012/F.No. 4-2/19-R/Quarry/PF-I dated 09/10/2012.

AND, WHEREAS, the committee finalized the quarry plan.

NOW, THEREFORE, in exercise of the powers conferred under Rule 5 read with Rule 16 of the Andaman & Nicobar Islands Minor Minerals Rules, 2012, the Lt. Governor (Administrator), Andaman and Nicobar Islands hereby approves the quarry plan containing the location, site plan, progressive and final closure plan, reclamation and restoration plan including specific guidelines for source-wise pollution control measures to be followed for quarry operation in North and Middle Andaman District are as follows :—

2.1 Location

HARINAGAR VILLAGE IN MAYABUNDER TEHSIL

2.00 hectares was identified at Harinagar village for quarrying operation by machinery/manually but without explosives.

- (i) An area measuring 2.00 hectare has been identified out of the land bearing Survey No. 4/1/P recorded in Form 'AN' as grazing land.

Quarry	Survey No.	Area in Hect.
A	4/1/p	0.25
B	4/1/p	0.25
C	4/1/p	0.25
D	4/1/p	0.25
E	4/1/p	0.25
F	4/1/p	0.25
G	4/1/p	0.25
H	4/1/p	0.25

- (ii) The subject land is free from all encumbrances and the area includes the sites from where quarrying operations were being undertaken earlier.
- (iii) The selected area satisfies the restrictions mentioned in Rule 4 and is more than 500 meters from any Educational Institution, Health Institution, Residential Area, or a Water Body.

Site Plan

- (i) The selected quarrying area at Harinagar is contiguous area.
- (ii) The selected areas are part of hillock and topographically has smooth top tapering at the opposite sides of the hillocks.
- (iii) This quarry have higher mix of earth which itself can be classified as minor mineral but is generally dumped around due to less demand. Mostly, stone boulders shall be extracted by the lease holder. These quarries has sufficient deposits of stone boulders.
- (iv) The surplus earth extracted by the lease holder shall be properly stacked and will be utilized for the execution of public works such as widening of road, earth levelling etc.
- (v) The use of explosives is not allowed but use of machinery is permitted. All necessary precautions have to be taken to ensure that extraction shall be gradual while maintaining a gradient of 45 degree angle. Quarry shall not be carried out in a manner which can lead to sliding.
- (vi) All necessary precautions are to be taken to ensure safety of man and machinery.
- (vii) Reclamation is to be done gradually by filling the surplus earth on the already mined area to maintain a smooth and soft surface level so that it may lead to growth of herbs/shrubs or other natural flora. Time to time directions can be issued by the Competent Authority for meeting the obligations arising out of Rule 18 (2).
- (viii) The details layout plan shall be within the cluster areas notified.

2.2 Potential for Extraction

- (i) Estimation of potential for extraction of minor mineral has been difficult considering the high mix of earth and lack of good quality of stone boulders.
- (ii) Committee has decided that earlier extraction of the quarry products has not resulted in degradation or over exploitation. Hence, the mineral extraction rate should be kept same. This will allow the course correction, if needed.
- (iii) Committee decided that after the excavation, mined area shall be brought in the shape of a flat land or at the end of quarrying from the area we have a gradient of 45 degree angle.
- (iv) It has been decided to stagger the quarry operations to meet the genuine demand considering of the developmental works undertaken by APWD.
- (v) In order to stagger the quarry operations over a period of time Committee decided to allow extraction of upto 12,000 cbm. minor mineral from each site per annum.

Progressive and Final Closure Plan

- (i) Committee favoured utilization of surplus fertile earth extracted as a result of the mining is to be utilized for progressive closure of the already mined areas. This area can be utilized for man and machinery movement but not for stacking or degrading. Growth of naturally grown endemic species is to be allowed.
- (ii) The Committee has decided that with the present rate of extraction of minor minerals, it would be difficult to recommend guidelines for final closure of quarry. The following points are to be considered as a part of final closure of the quarry.
 - (a) Location of the Quarry.
 - (b) Topography of the Quarry.
 - (c) Reasons for Closure or Reserves of Minor Minerals available for future in the quarry, if any.
 - (d) The reclamation and rehabilitation of the mined quarries indicating the method of reclamation/restoration of land and quarries pits.

- (e) Water quality and hydrology of the area indicating water bodies, surface run-off, vulnerability to erosion, sedimentation/siltation, diversion of water course, contamination, quantity and quality change of water in water bodies. The corrective and protective measures are to be considered.
- (f) Air quality indicating air quality status & corrective measures to prevent pollution.
- (g) Waste Management indicating status, type, quality and quantity of over burden, earth/top soil removed and prevention measures & disposal methods of the overburden incase not utilized for stabilization & for filling the pits. The protective measures to be taken for prevention of siltation, erosion and dust generation from these waste materials should also be addressed.
- (h) Infrastructure- Emphasis on maintaining the existing roads, etc. and creation of toe/retaining walls, check dams etc.
- (i) Disposal or removal of quarrying machinery & construction like hutment/shed, if any.
- (j) The Administration may include any activity as a part of closure plan at any point of time.
- (k) Statutory obligations like payment of wages/compensation for retrenchment of manpower/ labour under ID Act, and handling any other kind of repercussions shall be the sole responsibility of quarry lease holder.
- (l) Disaster Management & Risk Assessment-indicating the probable high risks like landslides, seismic activities, inundation of low areas in abandoned quarry and action plan to mitigate these risks.
- (m) Monitoring and Evaluation of the activities of the closure plan.

2.3 Plans for Reclamation and Restoration of Land

Reclamation and rehabilitation of land shall be done in accordance with Rule 21 of Andaman and Nicobar Islands Minor Minerals Rules, 2012.

3. Measures for Pollution Control

3.1 General

- (i) During quarrying operators, water should be sprayed atleast once in a day over the roads at the quarry sites and nearby areas by the lease holders.
- (ii) Kachha road, used for transportation of murrum, from the quarry site shall be invariably sprayed by water during these operations. In order to minimize dust pollution, measures such as adoption of hoods at transfer points, vulcanizing of conveyer belt joints, under belt cleaning devices, and installation of dust suppressions and/or dust extraction system for conveyance shall be adopted.
- (iii) The Kachha road leading to the quarry shall have avenue plantation to arrest the dust pollution.

3.2 Drilling

- (i) Drilling machine shall be fitted with dust suppression, collection and disposal arrangement.
- (ii) Deep wetting of drilling zones shall be done by water sprinkling before starting drilling.
- (iii) During the drilling operations the efforts shall be made to reduce dust generation by taking appropriate measures.
- (iv) The workers shall be provided appropriate personal protective equipment viz. ear muffers/ear plug or noise proof cabins.

3.3 Heavy Earth Moving Machineries

- (i) The operator/transporter shall carryout regular maintenance of the machinery and vehicles.
- (ii) The speed limit shall be adhered to.
- (iii) Operator's cabin of the HEMMs should preferably be air conditioned atleast air tight.
- (iv) The smoke emissions should conform to the standards notified in Motor Vehicles Act.

- (v) The trucks carrying the mined products shall be covered with tarpaulin so that there are no fugitive emissions during transportation.
- (vi) The transportation should not be through the busy roads in the city/towns/villages, if bypass roads are available.
- (vii) The engine exhausts of HEMM to be fitted with mufflers and cabins shall be noise proof.
- (viii) HEMM shall be properly maintained.
- (ix) Operators shall be provided with ear mufflers/ear plugs.
- (x) Imposition of speed restriction of HEMM near residential area shall be enforced.
- (xi) The haulage path of the HEMM shall be re-routed so that it is away from the residential area.

Haul Road

- (i) All the haul and service roads shall be metalled and well maintained.
- (ii) Unmetalled haul roads shall be free of ruts and pot holes.
- (iii) All haul roads and surface roads shall be regularly sprayed with water.
- (iv) Plantation alongside haul roads (avenue plantation) shall be carried out.

3.5 Overburdening

- (i) Plantation over and around over burden dumps shall be carried out to ensure stability of slopes, prevention of dust by wind action and soil erosion during the run off.
- (ii) Wetting of surface of Overburden dump shall be regularly practiced.

3.6 Water Pollution

The project components should comply with all the standards given in the Water (Prevention and Control of Pollution) Act, 1974.

4. Responsibility of the quarry lease holder

Besides the responsibilities of the quarry lease holder as stated in the A & N Islands Minor Minerals Rules, 2012, a quarry lease holder shall also be responsible for complying with the various aspects as suggested in the various headings of the instant quarry plan.

5. Other relevant matters

- (i) Periodical Health checkup of the workers and their family members engaged in the quarry, a dust prone unit and to keeping vigilance on development of Silicosis or other respiratory illnesses shall also be undertaken by the quarry lease holder.
- (ii) All quarry lease holders must keep necessary provision of "First Aid" at the work site.
- (iii) Make provision of fund for aid to the workers and their family in case of any accidental injury/death take place.

6. Period of operation of quarry plan

- (i) The instant quarry plan shall come into force immediately after Notification.
- (ii) The plan shall remain in force till three years from the date of Notification unless otherwise modified on account of orders of a Competent Court/Administrator and in such event, the modified quarry plan shall have the same force and applicability for all concerned including the quarry lease holders.

Lt. General (Retd.) Ajay Kumar Singh, PVSM, AVSM, SVM, SM
Lieutenant Governor,
Andaman & Nicobar Islands.

By order and in the name of the Lt. Governor,

Sd./-
(Krishna Chakraborty)
Assistant Secretary (Rev.)